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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/BRN/CSR-06/871f/CEMENT/2015-16 Date: 10.06.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** J.C. Nagara Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B. Rajagopala Naidu,** No. 486, New BEL Road, Bangalore - 54.
*NAME OF THE WORK	:	Rectification of footpath in HIG Layout, BBMP, Bangalore.
*REFERENCE	:	EE/H/AE/WO/192/2012-13 Dated: 07.11.2012
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	08.06.2015
PERIOD OF TESTING	:	08.06.2015 to 10.06.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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T-2377

Job No.: CTCE/BBMP/BRN/CSR-06/871f/SAND-Gradation/2015-16 : 10.06.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** J.C. Nagara Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B. Rajagopala Naidu,**
No. 486, New BEL Road, Bangalore - 54.

*** Name of Work** : Rectification of footpath in HIG Layout, BBMP, Bangalore.

Reference : EE/H/AE/WO/192/2012-13 Dated: 07.11.2012

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 08.06.2015

Date of Testing : 10.06.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.20	90-100	90-100	90-100	95-100
2.36	73.10	60-95	75-100	85-100	95-100
1.18	48.50	30-70	55-90	75-100	90-100
600 Micron	20.60	15-34	35-59	60-79	80-100
300 Micron	11.00	5-20	8-30	12-40	15-50
150 Micron	3.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/BRN/Pavers/2015-16 12.06.2015

TEST REPORT ON PHYSICAL TESTS OF PAVER BLOCKS

* Customer	:	**Asst. Executive Engineer,** J.C. Nagara Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B. Rajagopala Naidu,** No. 486, New BEL Road, Bangalore - 54.
* Name of work	:	Rectification of footpath in HIG Layout, BBMP, Bangalore.
* Reference	:	EE/H/AE/WO/192/2012-13 Dated: 07.11.2012
* Samples ID	:	Paver Blocks
Technical Reference	:	IS 15658-2006
Date of Testing	:	12.06.2015

The results of the tests conducted on the Paver Blocks sample are as follows:

1.THICKNESS:

Sl No	Identification	Thickness, mm	Average thickness, mm
1	PB1	75.1	75.15
2	PB2	75.20	
3	PB3	75.15	

2.COMPRESSIVE STRENGTH:

Sl No	Identification	Load in Kilo-Newton	Cross sectional area, mm2	Compressive strength
1	PB1	785.2	24200	32.45
2	PB2	781.3	24200	32.29
3	PB3	769.8	24200	31.81

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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T-2377

Job No.: CTCE/BBMP/BRN/CSR-06/871f/Kerb stone/2015-16

15.06.2015

TEST REPORT ON CONCRETE CORE (KERB STONE)

* Name of Customer	:	**Asst. Executive Engineer,** J.C. Nagara Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. B. Rajagopala Naidu,** No. 486, New BEL Road, Bangalore - 54.
* Name of work	:	Rectification of footpath in HIG Layout, BBMP, Bangalore.
Reference	:	EE/H/AE/WO/192/2012-13 Dated: 07.11.2012
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Kerb stone
Sample Received on	:	10.06.2015
Date of Testing	:	15.06.2015

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.398	2533.75	1.60	0.955	24.55	12.50	13.50	12.90	16.12
2	50.00	81.00	0.407	2559.05	1.62	0.961	25.12	12.79	13.82	13.28	16.60
3	50.00	82.00	0.413	2565.11	1.64	0.965	25.64	13.06	14.10	13.61	17.01

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